

Cracklin' Static

JUNE 2019 Edition



Breakfast Meeting: Sat, June 1st

Boomtown Casino Hotel
Events Center
I-80 at Exit 4 in Verdi

Breakfast Buffet – 7:30am - \$12
General Meeting – 8:00am

JIM W6US will talk about Field Day

SNARS NET on DMR – Tuesday 8pm
DMR Talk Group: 31328 SNARS

SNARS Treasury – As of May 25

Operating:	6,622
Convention:	1,645
Savings:	8,145
Self-Insurance:	4,667
PayPal:	2,219

Total: 23,298

SNARS Membership – ending May 25

General	112	30%
Technician	122	33%
Extra	124	33%
Advanced	13	4%

SNARS Members	371
ARRL Members	241

President's Voice

President John Byerly, N7ROJ

Email: mtnlion@gmail.com



Happy Spring? everyone!

We are coming up on Field Day, the club is working hard to make this quite an event for everyone. So, consider coming out, operating, visiting and enjoying the hobby!

SNARS has gotten some major recognition thanks to the Youth involvement team and the event at Cabela's.

There is an article in the June 2019 QST on pages 70-72 documenting the efforts, and a nice sidebar about SNARS!

Check out K6ST Barry's article in this month's CS for more information.

NVCON is coming soon. We have many changes for the members, including the more affordable ticket prices, the Country Store, many vendors and presenters. Feel free to contact us if you want to volunteer to make all these things possible.

Our meeting this next Saturday, our presenter will be our own W6US, Jim who is the new Field Day coordinator who will be talking about FD, what happens at the event, and how you can participate or help!

See you at the meeting!

73 for now! N7ROJ/John



NVCON
RENO-TAHOE 2019

Nevada State Amateur Radio Convention

July 19 – 21, 2019

Boomtown Casino Hotel • Reno, Nevada



PO BOX 7727 Reno NV 89510
Yearly Dues: \$40.00 Individual • \$50.00 Family
775.453.4142 <http://snars.org>

2019 Officers

President.....John Byerly, N7ROJ
Vice-President.....Jim Shepherd, W6US
Treasurer.....Bill Jones, AE7OX
Secretary.....Anthony Marcin, W7XM
DirectorWes Vick, KG7QXE
DirectorJohn Miller N7JDM
DirectorBarry Bettman, K6ST

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Cracklin Static..... Howie Holden, WB2AWQ
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KR7ENO Trustee Howie Holden, WB2AWQ
Control Operator Pat Sheehan, W7DED
Historian Jon Fox, KF7KTC
Tech Team Lead Pat Sheehan, W7DED
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DMR Net Manager Anthony Marcin, W7XM
Reno Ham Swap Vacant
Webmaster Erik Andreasen, K6CZH
Club Sales Manager.....Julie Dodge, N7JWL
Recording Secretary.....Doug Edmondo, W7DBE

Cracklin Static Publication

Editor: Howie Holden **WB2AWQ** - holden7471@msn.com
Cracklin' Static is the Newsletter of, and sponsored by the Sierra Nevada Amateur Radio Society. Opinions expressed herein are those of the editors and contributors and should not be considered as official expressions of the Club Officers, Staff or Club Members, or as endorsements by same.

Material for publication may be edited to enhance readability or to save space. We reserve the right to use whatever font size, line spacing or other tools as may be required to publish this Newsletter. **Deadline for input to the newsletter is 1500 hours on the Sunday** prior to the 1st Saturday of each month.

SNARS Wide Area Linked System

147.030 + PL 123.0	Sparks, Fernley, Fallon	Online
147.210 + PL 100.0	Reno, Sparks	Online
147.150 + PL 123.0	Lake Tahoe, Truckee, Carson	Online
146.925 - PL 123.0	Lovelock, Fallon	Online
146.670 - PL 123.0	Winnemucca	Online
444.875 + PL 100.0	Yerington	Online
444.125 + PL 123.0	Reno Sparks	Offline

DMR Systems

444.925 + CC 1	Reno, Sparks	Online
444.825 + CC 1	Dayton, Fallon, Carson	Online
443.925 + CC 1	Lake Tahoe, Truckee, Carson	Online
443.950 + CC 1	Incline Village	Online
442.875 + CC 1	Sparks, Fernley, Fallon	Online
442.850 + CC 1	Downtown Reno	Online
441.950 + CC 1	Fallon, Fernley	Offline

Fusion Systems

146.610 - PL 123.0	Reno, Carson, Dayton	Online
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IRLP / EchoLink Systems

147.300 + PL 123.0	Reno, Sparks	Online
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Packet / APRS

145.050 - RNO	Reno, Carson, Dayton	Online
145.050 - ROSE	Lake Tahoe, Truckee, Carson	Online
144.390 - TOULON	Lovelock, Fallon	Online

Standalone Systems

147.390 + PL 100.0	Reno, Carson, Dayton	Online
443.075 + PL 123.0	Reno, Carson, Dayton	Online
927.0875 + PL 114.8	Reno, Carson, Dayton	Online

 Online  Offline  Not Linked

Thank you to our Sponsors/Supporters



Weekday on the SNARS Linked System

147.030 + PL 123 – Sparks/Fernley
 147.150 + PL123.0 – Lake Tahoe / Truckee
 147.210 + PL 100.0 - Reno
 444.875 + PL 100.0 - Yerington
 146.925 - 123.0 – Lovelock / Fallon
 146.67 – PL 123.0 - Winnemucca

Monday through Friday @ 12:00pm

Open to all amateur radio operators. A general informational net for the amateur radio community of Northern Nevada and Eastern California. Radio Checks and Questions are welcomed.

Nets on the SNARS Linked Systems

147.210 + 100.0 | 147.030 + 123.0 | 147.150 + 123.0
 147.670 – 123.0 | 146.925 – 123.0 | 444.875 + 100.0

ERC Net for NV and Northern CA	Monday @ 9:15pm
N. Western NV ARES Net	Thursday at 7:30pm
Northern Nevada Preppers Net	Wednesday @ 8:00PM
Hospital Net	Friday @ 10:00AM

Nets on IRLP (GSR) System

Repeater: 147.300 + 123.0

Amateur Radio Newline	Monday - 8:00PM
Nevada Skywarn Net	Wednesday - 7:00pm
Nevada State ARES Net	Thursday - 7:00PM

Nets on Simplex/HF

Jefferson Noon Net	7.204 LSB	Daily - 12:00pm
6 Meter Net	50.350 USB	Tuesday – 8:00pm
2 Meter Week Signal	144.250 USB	Wednesday - 8:00PM
2 Meter Simplex Net	146.500 FM	Thursday – 8:00PM
10 Meter Net	28.350 USB	Sunday – 2:00PM

SNARS Weekly DMR Net – Tuesdays
8:00PM

SNARS Talk Group 31328

Open to Members and Guests. A general information net each week on DMR.

SNARS CALENDAR

Ham Radio Night at the REOC Wednesday, June 5,
6 PM Washoe REOC 5195 Spectrum Blvd, Reno NV

SNARS Board Meeting Wednesday June 12, 6 PM
Chin Chin, 222 Los Altos Pkwy, Sparks, NV 89436

ARRL Kids Day Discovery Museum Saturday June 15
9:30AM—5PM 490 S. Center St., Reno NV
 (See article page 11, flyer page 12)

Radio Exams - ARRL Sat, June 15, 9am – 12pm
Washoe EOC 5195 Spectrum Blvd Reno NV
 Details see: <http://snars.org/exams>

Reno QRP Monthly Meeting Mon, June 17, 11:30am –
12:30pm Alamo Casino Truck Stop in Sparks
Contact Gordon WB6JAD for more information.

NVCON Planning Meeting Thursday, June 20, 6 PM
Washoe REOC 5195 Spectrum Blvd, Reno NV

SNARS Field Day June 22-23 Washoe Lake State Park 4855
Eastlake Blvd Carson City (Equestrian Area) See Newsletter
or www.snars.org for details

Next SNARS Breakfast Meeting – Saturday July 6, 8 AM
Boomtown Casino Hotel Events Center I-80 at Exit 4 Verdi

WELCOME NEW MEMBERS

MAY 2019

Gerald	Miller	KJ7GEZ
Cole	Dietrich	K6RZR
Aaron	Williamson	KG7TEA
Jimmie	Richards	KC7GZQ

THE NAME OF THE GAME

Jim Shepherd, W6US nvjims@gmail.com

VOLUNTEERS

I'm writing this on the train somewhere in the northern plains while I am returning from the Dayton Hamvention. 30,000+ hams descended upon the Greene County Fairgrounds in the little town of Xenia (population 26,562), Ohio and had an excellent time buying, eating, selling, making eyeball QSOs, attending forums, and generally having a good time. The weather was good, mud was scarce, and suntan lotion was in short supply.

What made this a great hamfest was the excellent organization by the Dayton Amateur Radio Association (DARA). They had 800 volunteers fielded to handle everything from Accidents to prizes. A 73 person executive committee supervised their areas of function and the volunteers that were assigned to that function. The club only has about 850 members, about 550 of which showed up as volunteers and the rest of the volunteers came from afar to help. I was one of those who showed up to help with the Flea Market and Security functions.

The biggest thing was that the various committee leads had one function only. The General Chairman did not try to schedule the Flea Market workers. The Flea Market Co-Chairs didn't get involved with the inside exhibits, and so on. Everyone worked in their own areas and got the necessary volunteers to get the job done and it worked very well! Yes, I did work in the two areas, but at two different times and for two different chairs...

The DARA club has about 850 total members, and about 550 of the volunteers came from within the club. SNARS has about 360 members, and it should be able to provide enough volunteers to thoroughly staff any of the events that we do. Unfortunately that is not the case.

Currently, Field Day is suffering from a lack of volunteers. There are lots of things that need to be done to make it a success besides just bringing a radio and operating. We will have 7 stations set up for anyone to spend a little (or a lot) time operating. This is a good time to try some different hardware and modes. There is no reason why we cannot have a hundred or

so members out there to participate. Please sign up with me at nvjims@gmail.com with the times you will be there, meals needed, and what you want to do so we can make sure that you will have fun! See my other article on Field Day for more information.

NVCON is also running on a skeleton staff and we now need volunteers to help during the event. We need a bunch of folks that want to spend 2-4 hours during the event to run the special event station, sell raffle tickets, staff the Country Store, assist the forum speakers, do nighttime security, help with setup and tear down, put together a program booklet handout, and a host of other jobs that need to be done.

There could be more activities for SNARS if, and that is a big if, members would step up and volunteer to help. It would be nice to have a mid-summer club picnic. It won't happen unless someone steps up to run it and get the necessary volunteer help to put it on.

On the air events are also a place where we could use more participation... The 7QP party this year had a lot more participation, and other hams around the country were happy to hear more than a couple of Nevada stations! I hope that carries over to the Nevada QSO party in October. You don't need to run the entire contest, as handing out just a few contacts can make a lot of those folks happy and show that we do have an active ham community here in Nevada. If you work another contest and send in a log, be sure to list SNARS as your club as that helps us show up in the results article in CQ or QST. The June Issue of QST has a good article on our Kid's Day activities and the club and we would like to see more mentions of us throughout the year!

We are a big club now and more activities and participation will only make it greater. Other big clubs have a clubhouse like DARA, and that is something that we could aspire to. It is a great place for classes, committee meetings, and the towers and radio rooms provide a place for members with antenna restrictions to get on the air.

Lots of good things happen with active participation. Volunteer to help and make them happen!

SNARS LOGO ITEMS

This year we are celebrating our 50th year by providing many ways to commemorate this occasion by imprinting our 50th



Stickers \$1.00 Each



16oz Coffee Mugs \$8.00



Hats \$10.00



Club Badge \$15.00

Order at

<http://snars.org/store/badge-order>

Items are available at the monthly meetings, events or online (coming soon) <http://snars.org/store>



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MIKE'S MISSIVES CHAPTER FORTY FOUR

Mike Katz, N7MSK

Morse Code Is 175 Years Old and Still as Useful as Ever (Part 1)

TECH & SCIENCE

The first message sent by Morse code's dots and dashes across a long distance traveled from Washington, D.C., to Baltimore on Friday, May 24, 1844—175 years ago. It signaled the first time in human history that complex thoughts could be communicated at long distances almost instantaneously. Until then, people had to have face-to-face conversations; send coded messages through drums, smoke signals and semaphore systems; or read printed words.

Thanks to Samuel F.B. Morse, communication changed rapidly, and has been changing ever faster since. He invented the electric telegraph in 1832. It took six more years for him to standardize a code for communicating over telegraph wires. In 1843, Congress gave him \$30,000 to string wires between the nation's capital and nearby Baltimore. When the line was completed, he conducted a public demonstration of long-distance communication.

Morse wasn't the only one working to develop a means of communicating over the telegraph, but his is the one that has survived. The wires, magnets and keys used in the initial demonstration have given way to smartphones' on-screen keyboards, but Morse code has remained fundamentally the same, and is still—perhaps surprisingly—relevant in the 21st century. Although I have learned, and relearned, it many times as a Boy Scout, an amateur radio operator and a pilot, I continue to admire it and strive to master it.

Easy sending

Morse's key insight in constructing the code was considering how frequently each letter is used in English. The most commonly used letters have shorter symbols: "E," which appears most often, is signified by a single "dot." By contrast, "Z," the least used letter in English, was signified by the much longer and more complex "dot-dot-dot (pause) dot."

In 1865, the International Telecommunications Union changed the code to account for different character frequencies in other languages. There have been other tweaks since, but "E" is still "dot," though "Z" is now "dash-dash-dot-dot."

The reference to letter frequency makes for extremely efficient communications: Simple words with common letters can be transmitted very quickly. Longer words can still be sent, but they take more time.

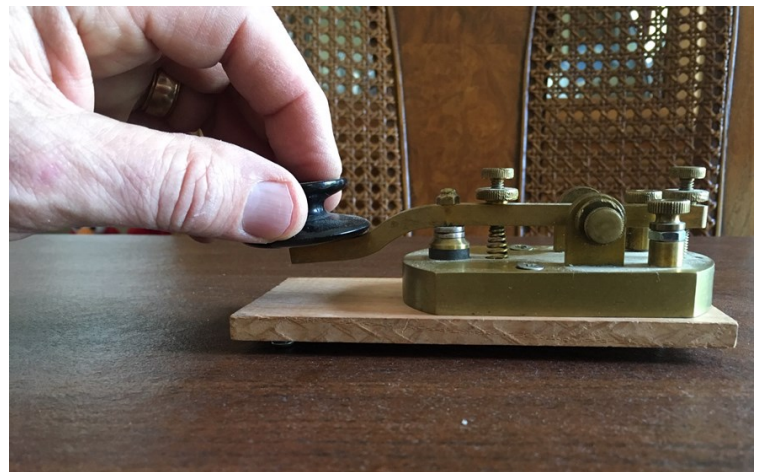
Going wireless

The communications system that Morse code was designed for—analogue connections over metal wires that carried a lot of interference and needed a clear on-off type signal to be heard—has evolved significantly.

The first big change came just a few decades after Morse's demonstration. In the late 19th century, Guglielmo Marconi invented radio-telegraph equipment, which could send Morse code over radio waves, rather than wires.

The shipping industry loved this new way to communicate with ships at sea, either from ship to ship or to shore-based stations. By 1910, U.S. law required many passenger ships in U.S. waters to carry wireless sets for sending and receiving messages.

After the Titanic sank in 1912, an international agreement required some ships to assign a person to listen for radio distress signals at all times. That same agreement designated "SOS"—"dot-dot-dot dash-dash-dash dot-dot-dot"—as the international distress signal, not as an abbreviation for anything but because it was a simple pattern that was easy to remember and transmit. The Coast Guard discontinued monitoring in 1995. The requirement that ships monitor for distress signals was removed in 1999, though the U.S. Navy still teaches at least some sailors to read, send and receive Morse code.



Aviators also use Morse code to identify automated navigational aids. These are radio beacons that help pilots follow routes, traveling from one transmitter to the next on aeronautical charts. They transmit their identifiers—such as "BAL" for Baltimore—in Morse code. Pilots often learn to recognize familiar-sounding patterns of beacons in areas they fly frequently.

.....to be continued.....

(Editor's note: [Eddie King](#) is a Ph.D. student in Electrical Engineering at the [University of South Carolina](#)

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Due to its size, this article will appear in two parts. The balance of the article will appear in next month's Cracklin Static.)

FIELD DAY!

The last weekend in June, we will all be gathering at Washoe State Park to operate around the clock for the 24 hours of Field Day. Set up will be on Friday, June 21 and we will need lots of help stringing long wire antennas between the trees and other supports! We will be at the Equestrian Use area to the north of the park entrance and there are not a lot of tall trees for antenna supports so we will have to bring some tall supports.

Radios and antennas may make the contacts, but they don't run without a lot of other things working properly. We are going to be an "A" class station which means that we will be running the radios on power other than that supplied by NV Energy. The bulk of that power will be by gas powered generators. We currently have 2 quiet generators which will need proper spill containment systems. A separate spill containment system will be needed for the fuel storage area. The generators will be located along the parking area just to the north of the walkway to the covered area. I have several heavy duty 10 gauge 100' extension cords to bring the power to operating positions, but we need several heavy duty power strips to split the power at the stations.

We also will be using 'shore power' from the park's power system for the logging computers and any needed lighting. If you have a small UPS, bring it to use with a logging computer as they do not have good batteries and any power bump could shut them down. Additional lighting is needed for outlying stations and should have LED bulbs to keep our power draw to a minimum as we may have very limited power on the park system. Additional outdoor rated 3 wire extension cords are needed for the computer power system. Be sure to label any equipment that you bring.

The computers will be set up to interface with most of the radios which will help with logging as the mode and frequencies entries will be automatic. Here is your chance to try some different modes and equipment with lots of potential contacts out there ready to come back to your CQ. We will have 2 stations dedicated to CW, 2 dedicated to the digital modes and 3 stations on voice mode. Since we will have Extra class control operators available, every one working will be able to use all the sections of the ham bands. Being a 24 hour operation, we are really looking for folks to operate in the late night and early morning periods. Virtually all of our 80M contacts were made late at night last year.

There is limited space under the main shelter, so some stations may need a canopy or tent for shelter. Thunderstorms like we have had in past years are accompanied by high, gusty winds so the shelters must be up to the task at hand. We will also need to hang some tarps around the main shelter to deflect

horizontal rain, wind and the sun in the late afternoon and early morning. Stations associated with motorhomes will need to be set up outside, and most recreational vehicles have canopies to help with that. A few extra tarps to put over the equipment during the storms are also needed.

There are plenty of park tables with attached benches, however while they are nice for a few minutes while eating, sitting on those benches for hours while operating can get old... Good folding tables with comfortable chairs really can make for better operating positions. Try out your combination at home first or bring your chair to our 'on site' meeting and check it with the end of the park tables. Most of the foldup camping chairs actually have you sitting too low to be comfortable at a table. For those stations that will not be operating on the cement pad under the main shelter, a large throw rug will help keep the dust down around your operating position and make it easier to use a foot switch and move your chair.

With all of the power cables, coax, CAT5 and other tripping hazards, we are in need of cable and cord shield covers to put across walkways. These will save wear and tear on the cables, keep people from tripping and, more importantly, prevent your radio from being jerked off of the table or the power disconnected in the middle of a contact.... I will bring some flagging for guy lines as they are also a potential hazard as we move around the site. If you are using rebar or other metal stakes to tie down your setups, you will need to cover the ends to prevent injuries—used plastic drink bottles make good covers. Hint—8 to 12" x 1/2" lag bolts with a fender washer make very good stakes for light guying and shelter hold-downs and can be driven flush to the ground with an electric impact driver which I will bring for your use.

The club has a large coffee pot with filters, so that is covered. Coolers filled only with ice are also important and having cold drinks while setting up on Friday and breaking down on Sunday afternoon is very important, so they should be the first things deployed and the last things to be packed up on Sunday. We need to have a handyman jack with some chain to be able to pull stubborn guy stakes. Plenty of tarps will help with shelters and having a few to quickly deploy over equipment can save the day... If you have a label maker, bring it to insure your equipment is labeled and to help others.

For your personal use, a LED headlight is very handy if you are wandering around after dark. Be sure to bring your PPE—hardhat, gloves, and glasses to help in the setup and teardown phases. This year there is lots of water in the lake and marshes, so bug repellent may be in demand. A high SPF sunscreen is also recommended if you are going to venture out from under the shelter. Water will be provided, but it is still a good

idea to bring some and a marker to label your bottle—partial, unlabelled bottles sitting around will be dumped and recycled. An insulated coffee mug will keep your coffee hot and cold drinks cold. If you are staying overnight, of course, you will need to bring your camping gear. If you have a radio headset, bring it as most stations will be set up to allow their use to monitor the traffic.

Saturday night, we will have a dinner at 1900 hrs local (7 pm or 0200Z Sunday). We have upgraded the menu and Tri-Tip will top the menu. We are going to charge \$5.00 per person for the dinner if you pay before 1700 local on Wednesday, June 19. Look for the signup on the SNARS.ORG website. After that time it will go to \$10 and we do request that you RSVP so we can get enough food. We have a few renown chefs for most of the cooking, but can use some additional help for prep and serving

excellent meals to the crew! There will be meals for the crews on Friday night, breakfasts and lunches on Saturday and Sunday.

While the club has paid the group use fee, it is up to each vehicle entering the park to pay the \$5 day use fee or the \$15 camping fee if they are staying overnight. Out of state folks are charged a couple of bucks more, and if you have a park pass, it can be less. It gets really expensive if you do not pay and are checked. The park has been good to us, and the money goes back toward the operation and improvement of the facilities.

We will have a meeting on-site on Sunday, June 9 at 1500 hrs to further discuss the setup and operations. There will be additional information given out at that time. Thanks for your support of Field Day!





NVCON

RENO-TAHOE 2019

Nevada State Amateur Radio Convention

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Boomtown Casino Hotel • Reno, Nevada

NVCON Notes

We are still needing some leaders to step forward and help with these events...

Coming to NVCON – The Country Store

This is a new part of hamfests that has been showing up around the country and it has been very popular. It is an extension of the swap-meet without a lot of effort on the part of the seller. It is a location where they can bring a couple of items without buying a space and sitting there all day to try and make a sale. This year, we will have a room in the main convention space dedicated to this. The way it works is you can fill out a form listing your equipment and the price, and the crew running the store will sell it for you. It is recommended that you make a one page description of the equipment to be placed with the equipment. Buyers will pay for the items by cash or check. For this service, you will pay a 10% or more consignment fee if your item sells. If it doesn't, it can be picked up at the end of the show on Saturday afternoon, and there is no charge. In the meantime, you are free to go to the sessions, visit the vendors, and, on Saturday, wander out into the swap meet and find more goodies for your shack. You can set the price, and, if sold, within 2 weeks, we will send you a check for items sold minus the consignment fee. That fee covers the cost of the space, tables, etc. Watch for more information as we get closer to NVCON.

We are currently looking for knowledgeable hams to staff the store. They should have a broad knowledge of ham and test gear to be able to help the buyers. We will have 2 hour blocks available for volunteers for this staffing. We are also looking for a Store Manager to be in charge of this operation, if you are interested, contact Jim, W6US at nvjims@gmail.com.

Presentation Manager for NVCON

One of the big features of a convention like NVCON is the educational and informational sessions that are available. We need a person to be a point of contact for the speakers. Duties will include scheduling the presentations, determining what resources are needed (tables, projectors, easels, etc), maintaining the vendor/speaker hospitality room, and making the speakers feel welcomed and a valued member of the NVCON team. If you are interested, contact Tony, W7XM at w7xm@snars.org

Special Event station operators

We will have a special event HF station running again at the Convention. There will be an Elecraft K3s on parts of 80, 40, 20, 15 and 10 meters that will be running SSB and digital modes. There will also be a FT-450D running on 30, 17 and 12 meters with SSB, CW, and possibly digital modes. We need operators to keep these radios on the air during the event. Not only will we be making contacts, but we will be explaining HF operations to our guests at NVCON. Ideally we can get some of them to make some contacts under the watchful eye of one of the operators. There will shortly be a sign-up sheet for one hour blocks on the NVCON website. You can also contact Jim, W6US at nvjims@gmail.com for more information.

In June, when we have the schedule for seminars set, we will be looking for people to spend a few hours here and there helping with most of the activities. We will be scheduling our best hams to help. Start thinking about what you want to do to help make this convention a success!

SHORT TAKES

Ham Radio Night, June 5, 2019

We will have some discussions on how to troubleshoot on the air problems. There may be some DMR programming help available at that time.

RCA Swap Meet, June 1, 2019, Minden, NV

Minden Nevada 14th Annual Radio, Electronics and Hi-Fi Swap meet will be a great place to see some really good high power ham and broadcast equipment. Head on down after our club meeting. More information at <http://n7rca.com/>

ARRL VHF Contest, June 8-10, 2019

Running from 11 in the morning Saturday until 8 pm on Sunday night, this is the big VHF/UHF contest. The exchange is simple, your grid zone where you are operating. All bands from 6 meters on up

are usable and there are bonus points for the higher UHF bands. FT8 may be the dominate mode on 6 and 2 meters unless there are some good sporadic E openings. For the complete rules, go to <http://www.arrl.org/june-vhf>

Kid's Day, June 15, 2019

Barry, K6ST, will have more information about this great opportunity to get the kids involved with ham radio.

License Session, June 15, 2019

This will be the last session before the General Test Pool will change in July. If you have been studying the existing material, come to this session. We will be at the REOC at 0830 to give exams for all classes of licenses.

Field Day, June 21-23, 2019

We will be at Washoe Lake State Park. See the other articles for more information.

NAME THAT RIG

(Answer on page14)



W7SSB's FUN STUFF

As promised the "new" **Compactenna** is here (aka 40Mthru440)! The owner sent me one to try out before the " Hamvention". HRO hasn't gotten their units at the time I was reviewing mine. The antenna is 58" tall and covers 40 / 20 / 10 / 6 / 2 / 440 bands! <https://compactenna.com/modelsresellers/#40M20M10M6M2M440>
It will save me a lot of verbiage if you look at the link. I did want to share with you the results of testing it.

I tested it with two other antennas. Please see attached pictures of the test setup.

Antenna 1. **Compactenna** 40Mthru440. mounted on a 3' x 3' galv. sheet (counter-poise) with a 5" mag. mount from Hustler . (You can use an alum sheet or screen material but must be 3' X 3').



Antenna 2. MFJ 1780 Fan Loop 2' x 2' remote controlled on a tripod.



Antenna 3. MFJ 1644 vertical (17') with base tuning and a counterpoise .



Test results were interesting! Tests were done on 20 meters in that the the band was quiet and all 3 antennas could tune there. First I listened in on several QSO's from all over for several hours and switched antennas with a 4 position antenna switch for comparisons ...

The MFJ 1780 loop by far was the best receive antenna ! It was 2+ S - Units above the **Compactenna**!

The MFJ 1644 came in second at 2 S- Units above the **Compactenna**, but being a vertical more noise came with it!

The Compactenna has its place in the ham shack because of size, ease of use, band coverage and it works ! **Compactenna** was having QSO's at the Hamvention inside on 40 meters in a metal building! It is made for indoor use, may be in the attic or garage or bring it out on the patio or back yard for part time use! Remember you need the counterpoise where ever you use it and keep it away from metal objects!



Unlike the other 2 antennas you need to use the internal or external tuner on 40 / 20 / 10 meters. The 6 / 2 / 440 bands you can run without the tuner with acceptable swr! If you have any questions, please contact meDon W7SSB 775-742-5165

PS: More testing will follow with more comparison to other antennas, on different bands and in transmit mode. Stay tuned!!!

DON'S LINKS!

<http://efactorantennas.com/id2.html>

Modern "halo" type antennas—Don had one at the May meeting

<http://www.portablezero.com/>

Tactical carriers and battery pack systems for modern transceivers

<http://w2eny.com/>

A wide variety of handcrafted accessories for modern and older radios

YOUTH INVOLVEMENT COLUMN

SNARS makes the National Ham Radio Journal QST in the June 2019 edition on pages 70-72 about Kids Day. Below is just part of the first of the three page article. Read all about it and the side bar about the Sierra Nevada Amateur Radio Society in QST.

As a result of a multi-pronged Kids Day effort, this Nevada club has taken on youth involvement with a passion, generating excitement for hams of all ages.

Barry Bettman, K6ST

The Sierra Nevada Amateur Radio Society (SNARS) club is lucky to have families with kids in our Reno/Tahoe, Nevada-based club, but we wanted to engage more kids on a significant level.

Kids Day turned out to be the perfect launching point. We started planning about 7 weeks out from the January 5, 2019 Kids Day event, which coincided with the next SNARS meeting.

Kids Day at the Outfitters



ARRL Kids Day at the Discovery Museum 490 S. Center St., Reno NV. Saturday, June 15, 2019 hundreds of kids will be coming to the Discovery Museum to partake in ARRL Kids Day.



Thanks to W7DBE Doug, who is a volunteer at the Discovery Museum, we are now planning our next ARRL Kids Day event to be at the Discovery Museum in Reno, NV.

Discovery Museum, Reno, NV

Interest and engagement in science for all. Through unique, hands-on programs and exhibits, The Discovery creates learning experiences that range from simple curiosity to deep understanding, empowering a community of critical thinkers.

Kids Day June 15, 2019: 409 S. Center St, Reno NV

setup 9:30a. event 10a - 5p, tear down following

To sign up to help, please click here:

<http://bit.ly/kidsday06152019> (If you sign up to help with the event no later than June 14, entry to Discovery is free)

ABOUT KIDS DAY

Twice a year, ARRL offers an event designed to promote Amateur Radio to our youth. Share the excitement with your kids or grandkids, a Scout troop, a church or the general public! Kids Day is designed to give on-the-air experience to young people and hopefully foster interest in getting a license of their own. It is also intended to give older hams a chance to share their station and love for Amateur Radio with their children.

Amateur Radio Kids Day June 15, 2019 at the Discovery Museum

Come join the Discovery Museum and the Sierra Nevada Amateur Radio Society for Kids Day:



- Talk on the radio to other Amateur Radio Operators
- Learn Morse Code
- Learn the fascinating history and Science of Amateur Radio
- Learn about Amateur Radio and Space
- Attend demonstrations of test equipment and digital radio



Get the Kids on the radio at Field Day June 22-23, 2019

The annual field day event is a great experience to get the youth on the air. You can read about field day here:

<http://www.arrrl.org/field-day>

If you know of kids or youth organizations that would like

to join SNARS for field day, feel free to contact me and I would be happy to help coordinate the youth for field day.

73,

Barry K6ST k6st@arrrl.net 775-622-3801
 Nevada Section Youth Coordinator - ARRL
 (American Radio Relay League)

ARES NEWS

ANNUAL COMMUNICATIONS EVENTS CALENDAR 2019

Carson Valley, Tahoe, Reno, Plumas County

Revised 5-27-19

EVENT 2019	DATE	DATE END	SPONSOR/ORGANIZER	COORDINATOR	CONTACT
Lost and Found Gravel Grinder SBTS	6/1/19		Plumas ARC	Larry Trotter KI6YUK	dltrotter@sbcglobal.net
America's Most Beautiful Bike Ride	6/2/19		Tahoe Amateur Radio Assn	Paul Gulbro, WA6EWV	wa6ewv@juno.com
Truckee Dirt Fondo Bike Ride	6/8/19		John Prouty	Bob Miller WA6MTY	wa6mtty@gbis.com
Pony Express Re-Ride	6/10/2019	6/20/19	SIERA	Jeff Cauhape K7BCV	j_cauhape@yahoo.com
Alta Alpina Challenge	6/29/19		Alta Alpina Cycling Club	Jennie Hamiter, KE7YBA	jenniehamiter@mac.com
Death Ride	7/13/19		Tahoe Amateur Radio Assn	Paul Gulbro, WA6EWV	wa6ewv@juno.com
Tahoe Rim Trail	7/20/19	7/22/19	Tahoe Mountain Milers	Bob Miller WA6MTY	wa6mtty@gbis.com
NVCON 2019	7/19/19	7/20/19	SNARS	Tony W7XM	w7xm@snars.org
Running With the Bears	8/17/19		Plumas ARC	Larry Trotter KI6YUK	dltrotter@sbcglobal.net
Vegas to Reno Off Road Race	8/14/19	8/17/19	Best in the Desert Racing Assn	Keith KC7HTK	kc7htkeith@hotmail.com
Tour De Tahoe	9/8/19		Tahoe Amateur Radio Assn	Paul Gulbro, WA6EWV	wa6ewv@juno.com
Reno Air-Races	9/8/15	9/15/19	WC-ARES	Bob Miller WA6MTY	wa6mtty@gbis.com
Bear Growl Gravel Grinder	9/15/19		Plumas ARC	KJ6CUG	dltrotter@sbcglobal.net
Edible Pedal 100	9/15/19		Sunrise Rotary Club	Bob Miller WA6MTY	wa6mtty@gbis.com
Grinduro SBTS	9/28/19		Plumas ARC	Larry Trotter KI6YUK	dltrotter@sbcglobal.net
Nevada Day Parade	10/26/19		NV AREA NW DEC	John Abrott KD7NHC	jabrott77@gmail.com , cell 775 790-1739
Turkey Trot	11/28/19		WC-ARES	Bob Miller WA6MTY	wa6mtty@gbis.com

NOTE: Plumas ARC always have a need for operators. Go over to some beautiful country and help out the Plumas Amateur Radio Club

June 8th is the Truckee Dirt Fondo Bike Ride.

We need help with aid stations and three SAG wagons. Either you can ride in a SAG wagon or you can be a SAG Wagon, drive part of the course and an EMT will ride with you.

Anyway you look at it we need SAG Wagons.

Here are the aid station locations:

Boca Reservoir: 39.3881, -120.0991

- Drive Time: 35 min 10.5 mi via Prosser Dam Rd.
- Operating Hours: Setup 7:50, Ops: 0830-1430

Stampede: 39.4831, -120.0963

- Drive Time: 34min 16.4 mi Via Stampede Meadows/I-80
- Operating Hours: Setup 0805, Ops: 0845-1330

Sardine: 39.5408, -120.1860

- Drive Time: 1h16m 30mi via Stampede Dam/Smithneck
- Operating Hours: Setup: 0830, Ops: 0915-11:30

Sardine Alternate: 39.5481, -120.2045

- Drive Time: 1h 8m 28 mi via Stampede Dam/Smithneck
- Operating Hours: Setup: 0830, Ops 0915 - 1130

NOTE the route may change because of the snow still on the course.

If you want to help out, send me an email and I will send you more details.

Bob Miller WA6MTY

Emergency Coordinator for Washoe County
Amateur Radio Emergency Service
775 843-5952

www.wcares.us
wa6mtty@gbis.com

COUNTY	REPEATER	COUNTY	REPEATER	COUNTY	REPEATER	COUNTY	REPEATER
Alpine, Ca	147.33	Douglas	147.33	Pershing	147.03	Washoe	147.15
	146.94		147.27		147.18		147.21
	147.24		147.24	Placer, Ca	147.24		147.03
	147.27		146.865	Plumas, Ca	147.15		147.18
	146.865	Eldorado, Ca	147.24		147.21		146.61
Churchill	147.15	Lassen, Ca	147.18	Sierra, Ca	147.15		147.39
	147.21				147.33		
	147.03	Lyon	146.97	Storey	147.15	EchoLink and IRLP	146.895
	147.18		146.61		147.21		147.3
	146.97		147.15		147.03	DMR	TALK GRPS
Carson City	146.61	Mineral			147.18		
	146.94	Modoc, Ca			146.61		
	147.39	Mono, Ca			147.39		
	147.27	Nevada, Ca	147.15		146.85		

FUN STUFF FOR JUNE

June has three ARRL or NCJ-sanctioned events (shown in bold), and Field Day and the ARRL VHF Contest are some of the biggest ones around. Kid's Day is a continuation of the ARRL's effort to get more youth involved in Amateur Radio. See the June QST for an excellent writeup about the earlier Kids Day by our own Barry Bettman K6ST!

1 Jun 0000 to 2 Jun 2359 28 10-10 International Open Season PSK Contest www.ten-ten.org

8 Jun 1800 to 10 Jun 0259 50 and up ARRL June VHF Contest CW Ph Dig www.arrl.org/june-vhf

15 Jun 1800 to 15 Jun 2359 3.5, 7, 14, 18, 21, 24, 28, 144 ARRL Kids Day Ph www.arrl.org/kids-day

22 Jun 1800 to 23 Jun 2100 All ARRL Field Day CW Ph Dig www.arrl.org/field-day

A complete list of contests is available at:
<http://www.arrl.org/files/file/Contest%20Corral/2019/June%202019%20Corral.pdf>

If you're not into contests, there's always DX to chase! June seems to favor Asia, western Pacific, and the Indian Ocean. Some of the better DX operations coming up in June:

Jun 06 to Jun 18 Sao Tome & Principe S9A

May 25 to Jun 02 Georgia 4L9S

May 25 to Jun 03 Eritrea E31A

Jun 01 to Jun 15 Vietnam XV9DXB

Jun 07 to Jul 02 Ghana 9G5GS

Jun 12 to Jun 16 Svalbard JW

Jun 17 to Jun 24 Micronesia V6K

See <https://www.ng3k.com/Misc/adxo.html> for a complete DX listing

NAME THAT RIG (from page 9)

Designed by **General Dynamics** in the early 1960s, the **R-1051 (X) HF receiver** was about the last military receiver to use vacuum tubes—it used only two of them, but they were in the RF amp stages, offering a superior “bulletproof” RF front end still unmatched today. The R1051 is more stable than Icom's most expensive radio, the IC7581— .01 PPM (parts per million per day) vs the Icom at .05 PPM, just as accurate on its readout (1Hz) and superior in image and spurious rejection by 10 dB. But it's not a radio for cruising the bands—frequency is set by a series of rotary switches. Built into the 1990s and still in use today, yet available as surplus, maintenance-wise it's not for the faint hearted, but it is VERY reliable. There were some 8 variants over the years, and was used by all US forces, but mainly by the Navy, both ashore and on board ships of all sizes. It replaced the legendary R-390A.

1. Call to order and roll call at 6:00 PM

Anthony Marcin, W7XM	NP	Barry Bettman, K6ST	P	John Miller, N7JDM	P
Bill Jones, AE7OX	P	John Byerly, N7ROJ	P	Wes Vick, KG7QXE	P
Jim Shepherd, W6US	P				
Doug Edmondo, W7DBE					
Rec. Sec.	P	Bill Nichols NN7K	V		

2. Approval of Minutes

- A. Approval of minutes of the April Board of Directors Meeting. Board motioned and approved
- B. Approval of Agenda. Boeard Motioned and approved

3. Reports

A. President's Report

- 1. Overall things are going well. Still looking for a pipes and drapes vendor, Down payment to Boomtown was made. Starting a list of what is broken at the repeater sites for repairs.

B. Secretary Report

- 1. No Report

C. Membership Coordinator

- 1. No change in numbers. Tony is transitioning everthing to Kim, including supplies. Bill noted that we have about 140 non-dues paying members (Grandfathered, life time, etc) and are looking into ensuring the numbers are correct.

D. Treasurer

- 1. Financial Report. Financial statements sent around for board member review. Total funds are \$25,974
- 2. Checking: \$6,795 Savings: \$8,165 Paypal: \$1,109 Conv: \$5,283 Self-Ins: \$4,667

E. Technical Team - Report

- 1. No new status on equipment, as noted a list of broken items is being put together

F. Control Operators / Trustee

- 1. Pat is putting together the presentation for the new control operator class.

G. Events

- 1. NVCON 2019. Starting to get volunteers lined up. Terry is working pipes and drapes.
- 2. Field Day 2019. Board had a discussion about having a swap meet at Field Day. Universally noted as being the wrong venue for this activity.
- 3. Ham Swap. Progressing, Board had a discussion on having two methods of payment but tabled the discussion until we can find out what Yuma Az did. Will discuss at the next NVCON meeting.

4. NVQSO Party. FT-8 is now a legal operating mode for the contest.

H. Education Activities

1. Status Report – Noted that having kids operate at Field Day earns bonus points. Kids day at Discovery Museum is approved and progressing (thanks Doug). Kids on big rigs was a success, Article in June QST, Working on something for CQ magazine. Working on Boys and Girls club activities.

I. Noon Net

1. Status Report - Net Manager. No status

J. New Business

1. John and Don had a discussion about chameleon antenna hardware
2. Board questions on who will be running the county store and how many volunteers are needed.
3. John Miller asked if we could do a public service announcement on the radio to get other HAMS interested in the club.

K. Public Comments

1. None tonight.

L. Adjournment of the board of directors

1. Next Meeting will be June 12th, 6pm at Chin Chin
2. Call for Adjournment. Board motioned and adjourned.